

WHAT IS CLAIMED IS:

1. A fuel reforming system comprising a fuel reformer for generating a reformed gas containing the hydrogen by using a gas containing vapors of a gas fuel or a liquid fuel and the oxygen, mixer of vapors of a gas fuel or a liquid fuel and a gas containing the hydrogen, supplier of vapors of a gas fuel or a liquid fuel into said fuel reformer through the mixer, supplier of a gas containing the oxygen into said fuel reformer through the mixer, and controller of first flow rate of the vapors of the gas fuel or the liquid fuel supplied into said fuel reformer and of second flow rate of the gas containing the oxygen supplied into said fuel reformer, further comprising:

detector of the first flow rate of the vapors;

detector of the second flow rate of the gas; and

temperature detector of at least one of the vapors of the gas fuel or the liquid fuel supplied into said fuel reformer, the gas containing the oxygen supplied into said fuel reformer, and mixture of vapors of the gas fuel or the liquid fuel and the gas containing the oxygen,

wherein a ratio of the first flow rate of the vapors to the second flow rate of the gas is corrected depending on the output of said temperature detector, and the gas containing the oxygen is supplied depending on the corrected ratio.

2. The fuel reforming system of claim 1,  
wherein the flow rate of the gas fuel, the flow rate of the vapor of the liquid fuel, or the flow rate of the liquid

fuel is corrected and supplied depending on the correction value of the ratio of the flow rate of the vapor of the gas fuel or the liquid fuel to the flow rate of the gas containing the oxygen.

5           3. A fuel reforming method of a fuel reforming system, said fuel reforming system having a fuel reformer for generating a reformed gas containing the hydrogen by using a gas containing vapors of a gas fuel or a liquid fuel and the oxygen, mixer of vapors of a gas fuel or a liquid fuel and a gas containing the  
10 hydrogen, first supplier of vapor of a gas fuel or a liquid fuel into said fuel reformer through the mixer, and second supplier of a gas containing the oxygen into said fuel reformer through the mixer, comprising:

supplying the liquid fuel into the first supplier;

15           detecting temperature of the vapor of the gas fuel or the liquid fuel supplied into said fuel reformer;

          determining first correction coefficient of a ratio of first flow rate of the vapors of the gas fuel to second flow rate of the gas containing the oxygen according to the detected  
20 temperature;

          detecting the first flow rate of the vapors;

          determining the second flow rate to be supplied to the second supplier according to the detected first flow rate and the determined first correction coefficient;

25           adjusting flow rate of the gas containing the oxygen into said fuel reformer by controlling the second supplier according to the determined second flow rate.

4. A fuel reforming method of a fuel reforming system of claim 3, wherein:

prior to supplying the liquid fuel, determining a required flow rate of the liquid fuel to be supplied to the first supplier of vapors according to a memorized fuel flow rate correction coefficient; and

after adjusting flow rate of the gas, determining the fuel flow rate correction coefficient according to the determined first correction coefficient.